

Health & Safety data sheet
According to EC Directive 91/155/EC and following amendments

Date of issue: 20 January 2008.

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name: Calmagite Indicator. **Application:** Indicator reagent.

Manufacturer identification: Hanna Instruments Italia s.r.l.
 Viale delle Industrie, 12/A
 35010 Villafranca Padovana, Italy
 tel.: +39-049-9070211

Emergency Telephone n. °: No hazardous product.

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Aqueous solution.

SECTION 3 - HAZARD IDENTIFICATION

No hazardous product as specified in Directive 67/548/EEC.

SECTION 4 - FIRST AID MEASURES

- **After inhalation** : if inhaled remove to fresh air. If breathing becomes difficult, call a physician.
- **After skin contact** : wash off with water and soap.
- **After eye contact** : rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice.
- **After swallowing** : wash out mouth with plenty of water. Obtain medical attention if feeling unwell.

SECTION 5 – FIRE-FIGHTING MEASURES

- **Suitable extinguishing media**
- In adaptation to materials stored in the neighborhood.
- **Special risks:**
- Non combustible.
- **Special protective equipment for fire fighting:**
- Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
- **Additional information:**
- Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **Personal precautions:**
- Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

SECTION 7 - HANDLING AND STORAGE

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| <ul style="list-style-type: none"> • Handling: <ul style="list-style-type: none"> - Avoid generation of vapors/aerosols. - Do not inhale substance. | <ul style="list-style-type: none"> • Storage: <ul style="list-style-type: none"> - Tightly closed. - In a well-ventilated place at +15 to +25 °C. |
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SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

- **Engineering controls**
- Safety shower and eye bath.
- **Personal protective equipment:**
- Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.
- **Respiratory protection:** • **Protective gloves:** • **Eye protection:**
 - Required when vapors/aerosols are generated. - Rubber or plastic - Goggles or face mask
- **Industrial hygiene:**

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- Change contaminated clothing.
- Wash hands after working with substance.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

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|------------------------------|--------------------------|---------------------------|-----------|
| • Appearance | : dark red liquid. | • Melting point | : NA |
| • Odor | : pungent. | • Boiling point | : ~100 °C |
| • Solubility in water | : soluble. | • pH value at 20°C | : 2.5 |
| • density at 20°C | : 1.00 g/cm ³ | | |

SECTION 10 - STABILITY AND REACTIVITY

- | | |
|--|---|
| • Conditions to be avoided: | • Substances to be avoided: |
| - Heating. | - The generally known reaction partners of water. |
| • Hazardous decomposition products: | • Hazardous Polymerization: |
| - Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides. | - Will not occur. |

SECTION 11 - TOXICOLOGICAL INFORMATION*Acute toxicity*

Quantitative data on the toxicity of this product are not available.

Further toxicological information

Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances and to the data of the components, when the product is handled appropriately.

Further data

The product should be handled with the care usual when dealing with chemicals.

SECTION 12 - ECOLOGICAL INFORMATION*Ecotoxic effects:*

Quantitative data on the ecological effect of this product are not available.

Further ecological data:

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13 - DISPOSAL CONSIDERATIONS

- **Waste disposal:**
 - Can be safely disposed off as an ordinary refuse.

SECTION 14 - TRANSPORT INFORMATION

Not subject to transport regulations.

SECTION 15 - REGULATORY INFORMATION**Labeling according to EC Directives:**

- | | |
|-------------|---|
| Symbol: | - |
| R-phrases : | - |
| S-phrases : | - |
| Contains : | - |

SECTION 16 - OTHER INFORMATION

- **Supersedes edition of** : / (1st edition)
- **Legend** : NA Not Applicable
ND Not Determined

THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.